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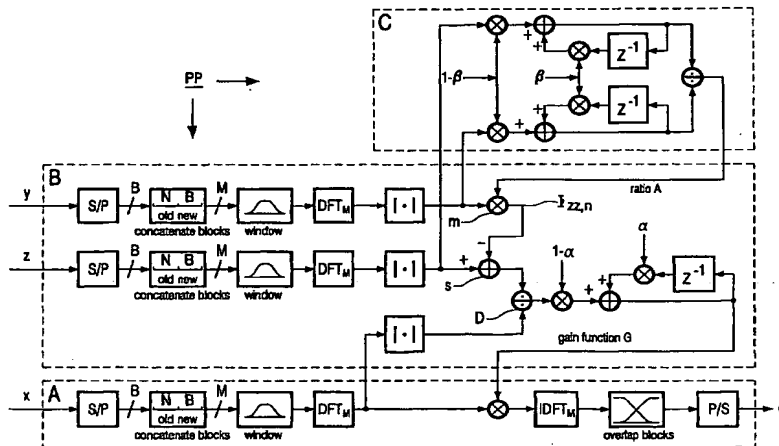
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(54) Title: AUDIO ENHANCEMENT SYSTEM HAVING A SPECTRAL POWER RATIO DEPENDENT PROCESSOR



(57) Abstract: An audio enhancement system is described, comprising audio signal inputs for a distorted desired signal and at least a reference signal, and a spectral processor coupled to the microphone array for processing the distorted desired signal by means of the reference signal acting as an estimate for the distortion of the desired signal. The spectral processor is arranged for modifying said processing such that the estimate for the distortion depends on A times the spectral power of the reference signal, where A is the ratio between the time averaged spectral power of the distortion of the distorted desired signal and the time averaged spectral power of the reference signal. The frequency dependency of the ratio A which is included in the distortion estimate, results in an improved audio enhancement system which is better suited for application in situations wherein the relation between the interfering signal and the distortion in the desired signal is not known in advance, such as for example in a car environment.